



**CERTIFICATE UNDER 37 C.F.R. 3.73(b)**

Applicant: Southern Mills, Inc.

Application No. 08/206,405

Filed: 03/07/94

For: Dye Diffusion Promoting Agents for Aramids

Southern Mills, Inc.

(Name of Assignee)

, a corporation

(Type of Assignee, e.g., corporation, partnership,  
university, government agency, etc.)

certifies that it is the assignee of the entire, right, title and interest in the patent application identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: Phillip H. Riggins To: Burlington Industries, Inc.  
The document was recorded in the Patent and Trademark Office at Reel 6063, Frame 0653, or for which a copy thereof is attached.

2. From: John H. Hansen To: Burlington Industries, Inc.  
The document was recorded in the Patent and Trademark Office at Reel 6063, Frame 0653, or for which a copy thereof is attached.

3. From: Burlington Industries, Inc. To: Southern Mills, Inc.  
The document was recorded in the Patent and Trademark Office at Reel 7463, Frame 0650, or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and these statements made on information and belief are believed to be true; and further, if, are statements are made with the knowledge that willful false statements, and the like so States punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the or any Code, and that such willful false statements may jeopardize the validity of the app or any patent issuing thereon.

Date: 7/14/95

Name: W. D. Ellis, Jr.

Title: Chairman / CEO

Signature: [Signature]



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

NEPTON & VANDERHYE P.C.  
ARTHUR R. CRAWFORD  
2200 CLARENDON BLVD., 14TH FLOOR  
ARLINGTON, VA 22201

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ASSIGNOR:  
RIGGINS, PHILLIP H.

DOC DATE: 03/11/92

ASSIGNOR:  
HANSEN, JOHN H.

DOC DATE: 03/10/92

RECORDATION DATE: 03/16/92      NUMBER OF PAGES 002      REEL/FRAME 6063/0653

DIGEST :ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:  
BURLINGTON INDUSTRIES, INC.  
A CORP. OF DELAWARE  
3330 W. FRIENDLY AVENUE  
GREENSBORO, NORTH CAROLINA

|               |          |             |          |
|---------------|----------|-------------|----------|
| SERIAL NUMBER | 7-851781 | FILING DATE | 03/16/92 |
| PATENT NUMBER |          | ISSUE DATE  | 00/00/00 |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Atty. Dkt. 11-702  
C# M#

07/851781

Date: March 16, 1992

Attached for filing is the patent application of:

Inventors: Phillip H. RIGGINS and John H. HANSEN

Entitled: DYE DIFFUSION PROMOTING AGENTS FOR ARAMIDS

and including attachments as noted below:

- ☒ Declaration, ☐ Abstract,
- ☒ 38 pages of specification and claims (including 64 numbered claims)
- ☐ sheets of accompanying drawing/s
- ☒ Record & return the attached assignment to the undersigned
- ☐ Priority is hereby claimed under 35 USC 119 based on filing in application(s) No(s). filed on , respectively.
- ☐ Certified copy(ies) ☐ attached or ☐ already filed on , respectively, in U.S. application Serial No. , filed .
- ☐ Verified statement establishing "small entity" status under Rules 9 & 27.
- ☒ Preliminary amendment to claims (attached hereto), to be entered before calculation of the fee below.

☐ Also attached:

FILING FEE IS BASED ON CLAIMS AS FILED LESS ANY HEREWITH CANCELLED

|   |            |
|---|------------|
| Basic filing fee .....  | \$ 690.00  |
| Total effective claims 64 - 20 = 44 x \$20 .....                            | \$ 880.00  |
| Independent claims 21 - 3 = 18 x \$72 .....                                 | \$ 1296.00 |
| If any <u>proper</u> multiple dependent claims, add \$220 *.....            | \$ 220.00  |
| * (Ignore if improper claims)   |            |
| SUBTOTAL  | \$ 3086.00 |
| If "small entity," then enter half (1/2) of subtotal and subtract. -\$( 0)  |            |
| TOTAL FILING FEE ENCLOSED   | \$ 3086.00 |
| <input checked="" type="checkbox"/> Assignment recording fee (\$40.00)..... | \$ 40.00   |
| TOTAL FEE ENCLOSED  | \$ 3126.00 |

The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Account No. 14-1140. A duplicate copy of this sheet is attached.

2200 Clarendon Blvd.  
14th Floor  
Arlington, VA 22201  
Tel: (703) 875-0400

NIXON & VANDERHYE P.C.  
By Atty: Arthur R. Crawford, Reg. No. 25,327

Signature: Arthur R. Crawford

ARC:pc

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ASSIGNMENT BRANCH



## ASSIGNMENT

WHEREAS, Phillip H. Riggins and John H. Hansen, (hereinafter ASSIGNORS) both of Greensboro, North Carolina, have invented a certain improvement in DYE DIFFUSION PROMOTING AGENTS FOR ARAMIDS for which a so-entitled application for Letters Patent of the United States, is being concurrently executed herewith;

WHEREAS, BURLINGTON INDUSTRIES, INC. (hereinafter ASSIGNEE), a corporation of the State of Delaware, having an office and place of business at 3330 W. Friendly Avenue, Greensboro, North Carolina is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNORS by these presents hereby sell, assign, and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the full and exclusive right to the said invention in the United States and all foreign countries, as described in the aforesaid application, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, for the sole use and behoof of ASSIGNEE, its successors, assigns, and legal representatives.

And, ASSIGNORS hereby agree to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention; and to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

Agreeing, further, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

3/11/92  
Date

Phillip H. Riggins  
Phillip H. Riggins

3/10/92  
Date

John H. Hansen  
John H. Hansen

\_\_\_\_\_  
Date

RECORDED  
MAR 16 1992  
FEDERAL BUREAU OF INVESTIGATION

Witnessed by:

Name: Arnold M. Sorkne MAR 16 92

Name: Arnold M. Sorkne Date: 3/10/92

(For Hansen)

(For Riggins)

MAY  
4  
1995

05-22-1995



SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable L.

100005201

Original documents or copy thereof.

## 1. Name of conveying part(ies):

Burlington Industries, Inc.

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

## 2. Name and address of receiving party(ies)

Name: Southern Mills, Inc.

Street Address: 6501 Mall Boulevard  
Union City, Georgia 30291

Additional name(s) &amp; address(es) attached? [ ] Yes [X] No

## 3. Nature of conveyance:

[X] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other:

Execution Date: December 16, 1994

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent application No.: 08/206,405

B. Patent No.(s)

Additional numbers attached? [ ] Yes [X] No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Collen A. Beard  
Hopkins & Thomas  
100 Galleria Parkway  
Suite 1500  
Atlanta, Georgia 30339

## 6. Total number of applications/patents involved:

[1]

## 7. Total fee (37 CFR 3.41):

\$ 40.00

[X] Enclosed  
[ ] Authorized to be charged to deposit account

## 8. Deposit Account Number: 20-0778

(Attach duplicate copy of this page if paying by Deposit Account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Collen A. Beard

Name of Person Signing

Collen A. Beard P-38,824

Signature

Date May 1, 1995

1S20-9-040

Total number of pages including cover sheet, attachments, and document: [ 5 ]

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Mail documents to be recorded with required cover sheet information to:  
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Washington, D.C. 20231



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OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JULY 02, 1995

PTAS



\*100005201A\*

COLLEN A. BEARD  
HOPKINS & THOMAS  
100 GALLERIA PARKWAY  
SUITE 1500  
ATLANTA, GA 30339

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RECORDATION DATE: 05/04/1995

REEL/FRAME: 7463/0650  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
BURLINGTON INDUSTRIES, INC.

DOC DATE: 12/16/1994

ASSIGNEE:  
SOUTHERN MILLS, INC.  
6501 MALL BOULEVARD  
UNION CITY, GEORGIA 30291

SERIAL NUMBER: 08206405  
PATENT NUMBER:

FILING DATE: 03/07/1994  
ISSUE DATE:

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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**JUL 13 1995**

**HOPKINS & THOMAS**

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Burlington Industries, Inc., a Delaware corporation of 3330 West Friendly Avenue, Greensboro, North Carolina 27410 (hereinafter referred to as ASSIGNOR) is the owner of the application for United States Letters Patent listed on Schedule A attached hereto (the "Patent Application"); and

WHEREAS, Southern Mills, Inc., a Georgia corporation of 6501 Mall Boulevard, Union City, Georgia 30291, (hereinafter referred to as ASSIGNEE) is desirous of acquiring an interest in the Patent Application;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto the said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to the Patent Application, the same to be held and enjoyed by the said ASSIGNEE, its successors, assigns and legal representatives, as fully and entirely as the same would have been held by the said ASSIGNOR had this assignment and sale not been made.

IN WITNESS WHEREOF, the undersigned has caused this instrument to be executed as of the 16th day of December, 1994 by its duly authorized officer.

BURLINGTON INDUSTRIES, INC.

By [Signature]  
Title: Vice President

(Corporate Seal)

STATE OF NORTH CAROLINA  
COUNTY OF GUILFORD

On this 16th day of December, 1994, before me personally appeared Peter S. W. Weberling, to me known and known to me to be the individual described in and who executed the foregoing instrument and acknowledged to me that he executed the same as the Vice President of the above noted corporation and that he was duly authorized to execute the same as the act of and on behalf of said corporation.

[Signature]  
Notary Public

My Commission Expires:

Nov. 25, 1999



Sch dul A

PATENT APPLICATION

Series Code &  
Serial No.

Filing Date

Inventor(s)

Title

08/206,405

03/07/94

John H. Hansen &  
Phillip H. Riggins

Dye Diffusion Promot-  
ing Agents for Aramids